APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Natta, G., Mazzanti, G. and others.
A PATENT ON ORGANOMETALLIC COMPLEXES. [1961] 7p.
Order from ATS $9.75 ATS-51N51F

Trans. of Belgian patent 586, 481 (1960 ?).
Another translation is available from TTIS $14.00 as TTIS-N. S. 6, 1960, 2300 words.

DESCRIPTORS: *Metalorganic compounds, *Complex compounds, Synthesis, Polymerization, Catalysts

(Chemistry--Organic, TT, v. 6, no. 3)

61-22647

I. Natta, G.
II. Mazzanti, G.
III. Patent (Belgium) 586 481
IV. ATS-51N51F
V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

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APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Heteroblock Copolymers and the Process for Their Preparation, by Giulio Natta, Ettore Giachetti, Italo Pasquon, 2 pp.

ITALIAN, Patent Appl No 6083, 18 Apr 1958; Patent Appl No 9042, 12 Jun 1958.

CIA/FDD XX-9802
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem
Apr 60
USIB INTERNAL USE ONLY

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Natta, G., Pasquon, I., and Dente, M.
CALCULATION OF MOLECULAR WEIGHT DISTRIBUTION IN SLOW POLYMERIZATIONS. II. DISTRIBUTION CURVES FOR POLYMERS OBTAINED IN PROCESSES CHARACTERIZED BY TERMINATION THROUGH CHAIN TRANSFER WITH MONOMER.
May 62, 3700 words, 6 refs.
Order from CTS (Chem) $14.80 CTS (Chem)-273
subsequent copies $2.50/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962, v. 44, no. 1, p. 10-17.

DESCRIPTORS: *Polymers, *Polymerization, *Molecular weight, Distribution, *Statistical functions, Numerical analysis, Partial differential equations.
(See also CTS(Chem)-272)

(Chemistry--Organic, TT, v. 8, no. 2)

62-17340

I. Natta, G.
II. Pasquon, I.
III. Dente, M.
IV. Title: Distribution ...
V. CTS(Chem)-273
VI. Chemical Translating Service, Palo Alto, Calif.

C221839

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APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Stereospecific Polymerization of Vinyl Aromatic Monomers. IV. Reactivity of the Monomers in the Overall Process, by G. Natta F. Danusso, et al, 20 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XLI, No 10, 1959, pp 968-974.

SLA 60-14211

Sci
OTS, Vol III, No 8
Apr 61

145, 119

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Stereospecific Polymerizations of Conjugated Diolefins. V. The Preparation and Properties of Isotactic 1,2-Polybutadiene, by G. Natta, L. Porri.

ITALIAN, per, Chimica Industria, Vol XLI, No 12, 1959, pp 1163-1169.

CTS(Chem)-103

Sci
26 May 62
Vol IV, No 8

198, 218

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

The Stereospecific Polymerization of Vinyl Ethers, by G. Natta, G. dall' Asta, et al, 14 pp.

GERMAN, per, Angewandte Chemie, Vol LXXI, No 6, 1959, pp 205-210.

SLA 59-15761
SLA 59-17204

Sci
Dec 59
Vol 2, No 4

102, 714

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

A New Crystallisable Organo-Metallic Complex Containing Titanium and Aluminium and Its Catalytic Properties in the Polymerisation of Olefines, by G.Natta, et al.

ITALIAN, par, Atti Accademia Nazionale dei Lincei, Vol XXVI, No 2, 1959, pp 150-154.

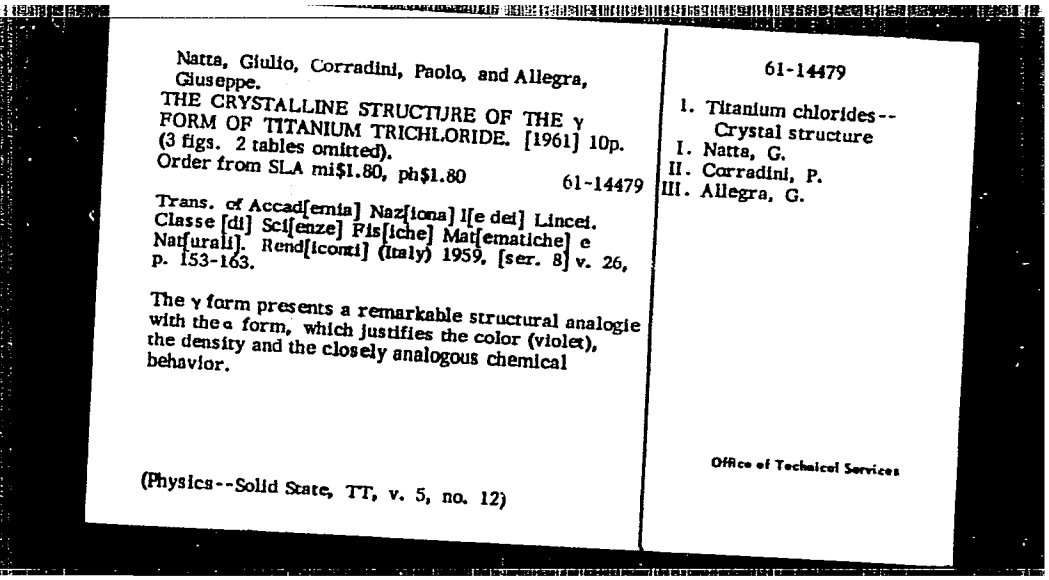
CSIRO

SCi - Biol
Jul 62

207,447

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3



Natta, Giulio, Corradini, Paolo, and Allegra, Giuseppe.
THE CRYSTALLINE STRUCTURE OF THE γ FORM OF TITANIUM TRICHLORIDE. [1961] 10p. (3 figs. 2 tables omitted).
Order from SLA mi$1.80, ph$1.80 61-14479

Trans. of Accad[emia] Naz[iona] l[e dei] Lincei. Classe [di] Sci[enze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1959, [ser. 8] v. 26, p. 153-163.

The γ form presents a remarkable structural analogie with the α form, which justifies the color (violet), the density and the closely analogous chemical behavior.

(Physics--Solid State, TT, v. 5, no. 12)

61-14479

1. Titanium chlorides--Crystal structure
I. Natta, G.
II. Corradini, P.
III. Allegra, G.

Office of Technical Services

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Isotactic Polymers, by G. Natta, 33 pp.

ITALIAN, per, La Chimica e l'Industrie,
Vol XXXVII, 1955, pp 888-900.

SLA 61-17645

Sci
24 Jul 62
Vol VII, No 10

204, 790

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Stereospecific Polymerization of Acetylene, by G. Natta, G. Mazzanti, P. Corradini, 15 pp.

ITALIAN, per, Accad Naz Lincei Classe di Sci Fiz, Mat e Nat Rend, Ser 8, Vol XXV, No 1/2, 1958, pp 3-12.

SLA 59-15708

Sci
Dec 59
Vol 2, No 5

103,591

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Stereospecific Polymerization of Alpha-olefins. Note IV. Polymerization of Propylene with Titanium Chlorides and Various Aluminum Trialkyls, by G. Natta, P. Pino, 13 p.

ITALIAN, per, Gazz Chim Ital, 1958, Vol LXXXVIII, No 2, pp 219-228.

SLA 59-17561

Sci
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Vol 2, No 10

108833

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Process for the Manufacture and Purification of Synthetic Polyalcohols, by G. Natta, E. Beati, 5p.

ITALIAN, patent 382,799, filed 21 May 40, granted 12 Sep 40,

AFS-63L33I

Sci
Apr 60
Vol III, No 2

111,652

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

The Crystal Structure of a New type of Polypropylene, by G. Natta, P. Corradini, 18 pp.

ITALIAN, per, Accademia Nazionale dei Lincei. Atti. Memorie de Szienze Fiziche, Serie 8, Vol. IV, ser II, No 5, 1955, pp 73-80.

XX - 222 SLA 61-17647

Sci
24 Jul 62
Vol VII, No 10

204, 189

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Structure of Alkali Cyanides and their Isomorphism with Halides, by G. Natta, L. Passerini.
ITALIAN, per, Gazz. Chim. Ital, Vol. 61, 1931, pp 191-215
CSIRO/ No. 7779

G. NATTA

Sci -
Aug 67

337-136

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Natta, G. and Corradini, P.
CRYSTALLINE BUTADIENE POLYMERS AND STRUCTURE OF 1-2-POLYBUTADIENE. 17p. MTWL: 867.
Order from OTS or ETC $1.85 61-17644

Trans. of Accademiya Nazionale dei Lincei. Atti. Rendiconti di Classe di Szienze Fisiche, Matematiche e Naturali (Italy) 1955, ser. 8, v. 19, p. 229-237.

DESCRIPTORS: *Butadienes, Polymers, Crystals, Structure.

NRC-C2318
SLA-61-17644

61-17644

I. Natta, G.
II. Corradini, P.
III. MTWL-867
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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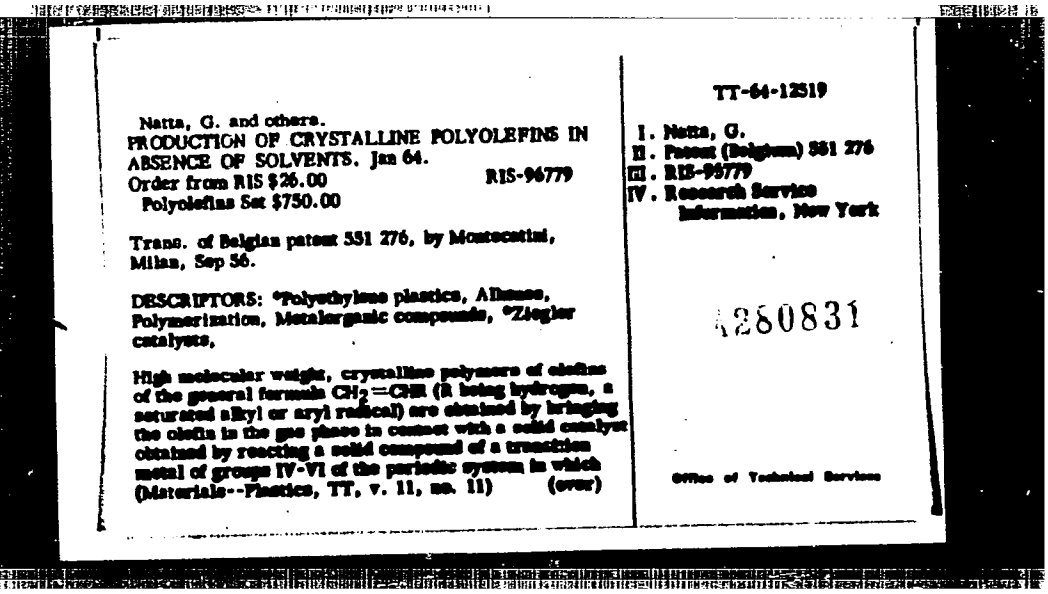

Natta, G. and others.
PRODUCTION OF CRYSTALLINE POLYOLEFINS IN ABSENCE OF SOLVENTS. Jan 64.
Order from RIS $26.00 RIS-96779
Polyolefins Set $750.00

Trans. of Belgian patent 551 276, by Montecatini, Milan, Sep 56.

DESCRIPTORS: *Polyethylene plastics, Alkenes, Polymerization, Metalorganic compounds, *Ziegler catalysts.

High molecular weight, crystalline polymers of olefins of the general formula $CH_2=CHR$ (R being hydrogen, a saturated alkyl or aryl radical) are obtained by bringing the olefin in the gas phase in contact with a solid catalyst obtained by reacting a solid compound of a transition metal of groups IV-VI of the periodic system in which (Materials--Plastics, TT, v. 11, no. 11) (over)

TT-64-12519

I. Natta, G.
II. Patent (Belgium) 551 276
III. RIS-96779
IV. Research Service Information, New York

A280831

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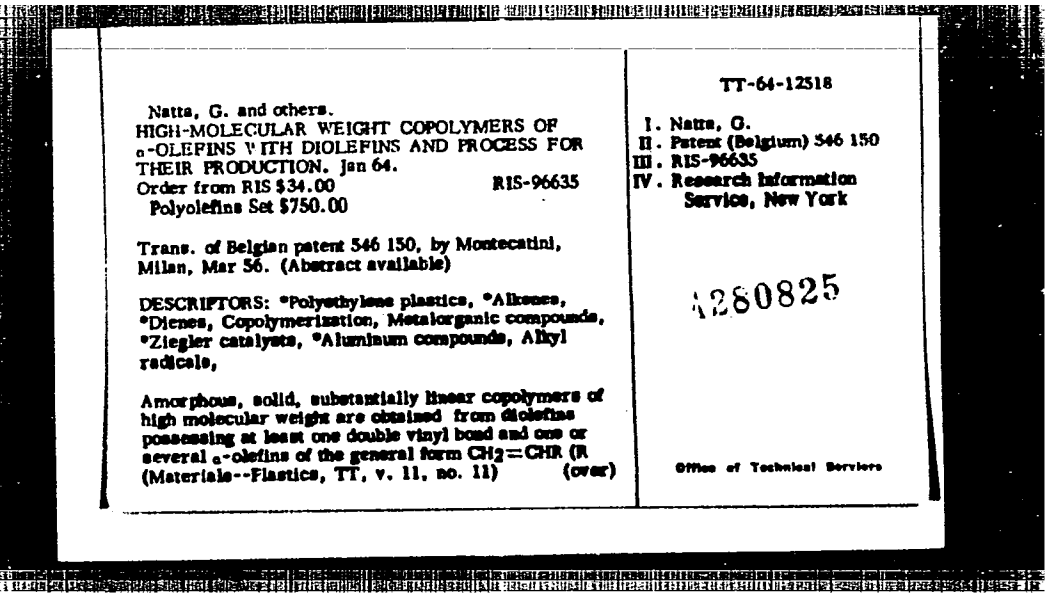

Natta, G. and others.
HIGH-MOLECULAR WEIGHT COPOLYMERS OF α-OLEFINS WITH DIOLEFINS AND PROCESS FOR THEIR PRODUCTION. Jan 64.
Order from RIS $34.00 RIS-96635
Polyolefins Set $750.00

Trans. of Belgian patent 546 150, by Montecatini, Milan, Mar 56. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Alkenes, *Dienes, Copolymerization, Metalorganic compounds, *Ziegler catalysts, *Aluminum compounds, Alkyl radicals,

Amorphous, solid, substantially linear copolymers of high molecular weight are obtained from diolefins possessing at least one double vinyl bond and one or several α-olefins of the general form $CH_2=CHR$ (R
(Materials--Plastics, TT, v. 11, no. 11) (over)

TT-64-12518

I. Natta, G.
II. Patent (Belgium) 546 150
III. RIS-96635
IV. Research Information Service, New York

A280825

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APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Natta, Giulio and others.
HIGH-MOLECULAR WEIGHT ACETYLENE HYDROCARBONS AND PROCESS FOR THEIR PRODUCTION.
Jan 64.
Order from RIS $34.00 RIS-96633
Hydrocarbons Set $75.00

Trans. of Belgian patent 546 151, by Montecatini, Milan, Mar 56. (Abstract available)

DESCRIPTORS: *Acetylenes, Polymerization, Metal-organic compounds, *Ziegler catalysts, *Aluminum compounds, Alkyl radicals, *Titanium compounds, Chlorides,

A process for polymerization of acetylene and other acetylenic hydrocarbons into polymers of a molecular weight exceeding 1000 by means of catalysts prepared by reacting a compound of a transition metal of groups IV to VIII such as titanium trichloride with a metal-organic
(Chemistry--Organic, TT, v. 11, no. 11) (over)

TT-64-12533

I. Natta, G.
II. Patent (Belgium) 546 151
III. RIS-96633
IV. Research Information Service, New York

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APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

60-18196

Natta, Giulia, Carradini, Paolo, and Bassi, Ivano Walter.
THE CRYSTAL STRUCTURE OF SOME POLY-ALPHA-OLEFINS WHICH ARE ISOTACTIC. [1960] 11p. 12refs.
Order from SLA $1.60 60-18496

Trans. of Accad[emia] Naz[ionale del] Lincei. Atti. Class[e di] Sci[enze] Fis[iche] Mat[ematiche] e Nat-[urali]. Rend[icont] (Italy) 1955 [ser. 8] v. 19, p. 404-411.
Another trans. is available from OTS or ETC $1.85 as 61-17348, MTWL-855/1, 14p.

DESCRIPTORS: *Crystal structure, *Polymers, X-ray diffraction analysis, *Ethylenes.

CSIRO

(Physics--Solid State, TT, v. 10, no. 1)

I. Natta, G.
II. Carradini, P.
III. Bassi, I.

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APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Stereospecific Polymerization of Conjugated Dialefins with Catalysts Containing Different Lattice Structural Forms of $TiCl_3$, by Guillo Natta Lido Porri, Leonardo Fiore, 15 p.

ITALIAN, per, Gazz Chim Ital, 1959, Vol LXXXIX, No 3, PP 761-774.

SLA 59-20016
SLA 60-1834

Sci
Feb 60 Vol 2, No 10

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Isotactic Polymers of Methyl-Substituted Styrenes,
by Dario Sianesi, Giulio Natta, Ferdinando Danusso, 10 p

ITALIAN, per, Gazzetta Chimica Italiana, 1959,
Vol LXXXIX, No 3, pp 775-783.

SLA 60-10120

Sci
Apr 60
Vol III, No 2

111, 662

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Radiographic Identification of Some Isotactic Polymers, by Giulio Natta, Paolo Corradini, Ivano Walter, 15 p.

ITALIAN, per, Gazzetta Chimica Italiana, 1959, Vol LXXXIX, No 3, pp 784-797.

SLA 60-10701.

Sci

May 60

116,779

Vol 3, No 4

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

A New Italian Demonstration in the Textile Industry; The Polypropylene Fibre, by Giulio Natta, 18 p.

ITALIAN, per, la Chimica e l'Industria, 1959, Vol XLI, No 7, pp 647-652.

SLA 59-20861

SLA 60-1017

110,971

Sci
Mar 60
Vol 3, No 1

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

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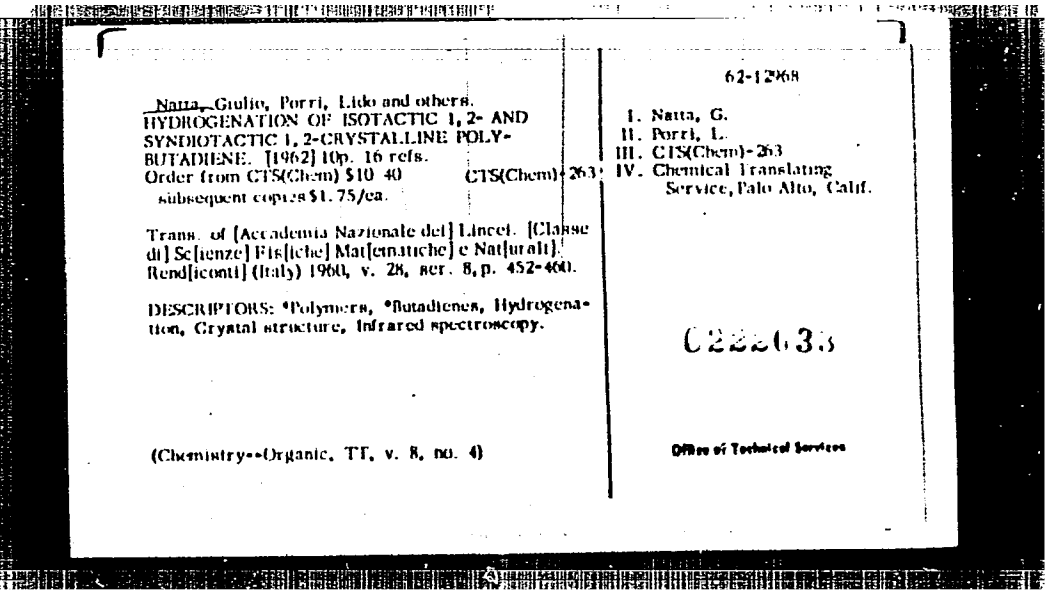

Natta, Giulio, Porri, Lido and others.
HYDROGENATION OF ISOTACTIC 1, 2- AND SYNDIOTACTIC 1, 2-CRYSTALLINE POLYBUTADIENE. [1962] 10p. 16 refs.
Order from CTS(Chem) $10 40 (CTS(Chem)-263)
subsequent copies $1. 75/ea.

Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1960, v. 28, ser. 8, p. 452-460.

DESCRIPTORS: *Polymers, *Butadienes, Hydrogenation, Crystal structure, Infrared spectroscopy.

(Chemistry--Organic, TT, v. 8, no. 4)

62-12968

I. Natta, G.
II. Porri, L.
III. CTS(Chem)-263
IV. Chemical Translating Service, Palo Alto, Calif.

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APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Natta, G[iulio] Farina. M[ario] and others.
ASYMMETRIC SYNTHESIS OF POLYTACTIC POLYMERS. [1961] 3p.
Order from ATS $6.30 ATS-85N49I

Trans. of [la] Chim[ica] e [l'Ind[ustria] (Italy) 1960, v. 42, no. 12, p. 1363-1364.

ATS-677-GJ

(Chemistry--Organic, TT, v. 5, no. 11)

61-22168

1. Polymers--Synthesis
2. Title: Polytactic polymers
I. Natta, G.
II. Farina, M.
III. ATS-85N49I
IV. Associated Technical Services, Inc., East Orange, N J.

Office of Technical Services

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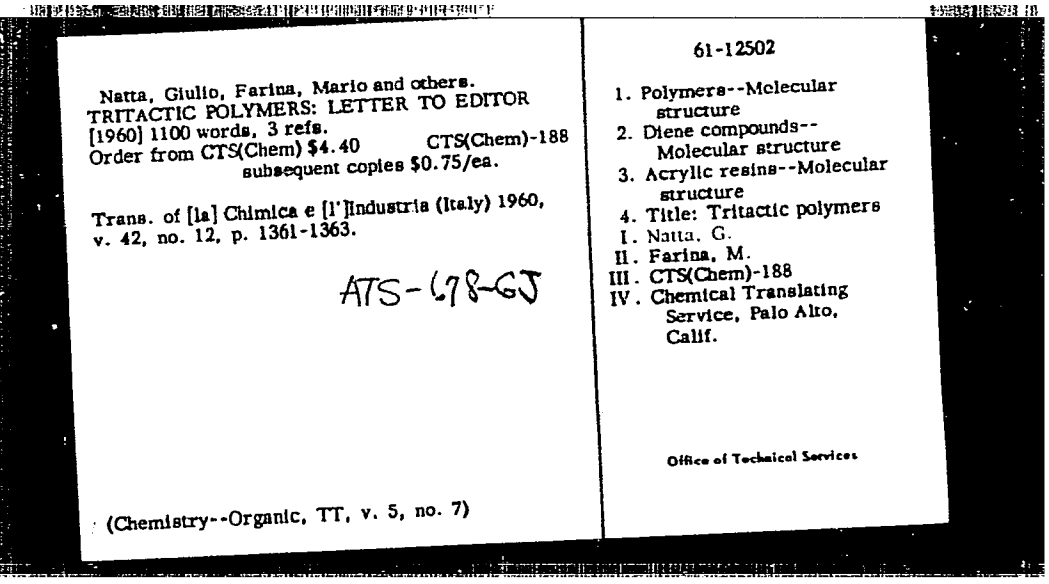

Natta, Giulio, Farina, Mario and others.
TRITACTIC POLYMERS: LETTER TO EDITOR
[1960] 1100 words, 3 refs.
Order from CTS(Chem) $4.40 CTS(Chem)-188
subsequent copies $0.75/ea.

Trans. of [la] Chimica e [l'']Industria (Italy) 1960, v. 42, no. 12, p. 1361-1363.

ATS-678-GJ

(Chemistry--Organic, TT, v. 5, no. 7)

61-12502

1. Polymers--Molecular structure
2. Diene compounds--Molecular structure
3. Acrylic resins--Molecular structure
4. Title: Tritactic polymers
I. Natta, G.
II. Farina, M.
III. CTS(Chem)-188
IV. Chemical Translating Service, Palo Alto, Calif.

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APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Natta, Giulio.
CATALYTIC ASPECTS OF STEREOSPECIFIC POLYMERIZATIONS. [1960] 13,000 words, 79 refs.
Order from CTS(Chem) $48.00 CTS(Chem)-179
subsequent copies $8.00/ea.

Trans. of [la] Chimica e [l'] Industria (Italy) 1960, v. 42, no. 11, p. 1207-1225.

(Chemistry--Organic, TT, v. 5, no. 5)

61-12498

1. Ethylenes--Polymerization
2. Metalorganic compounds--Catalytic properties
3. Polymerization--Analysis
4. Title: Stereospecific polymerization

I. Natta, G.
II. CTS(Chem)-179
III. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

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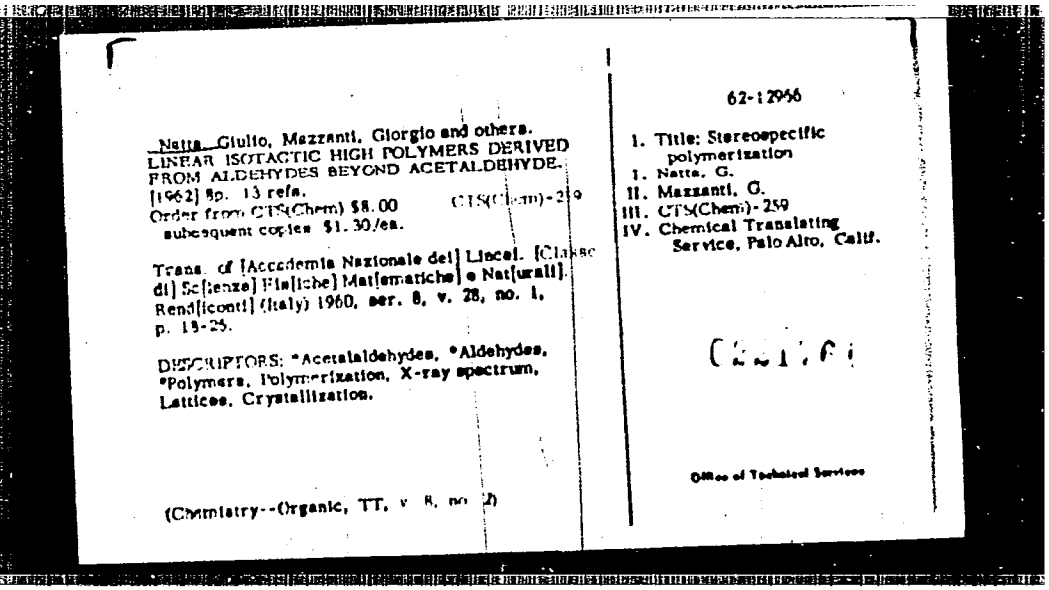

Natta, Giulio, Mazzanti, Giorgio and others.
LINEAR ISOTACTIC HIGH POLYMERS DERIVED FROM ALDEHYDES BEYOND ACETALDEHYDE.
[1962] 8p. 13 refs.
Order from: CTS(Chem) $8.00 (CTS(Chem)-259
subsequent copies $1.30/ea.

Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1960, ser. 8, v. 28, no. 1, p. 19-25.

DESCRIPTORS: *Acetalaldehydes, *Aldehydes, *Polymers, Polymerization, X-ray spectrum, Lattices, Crystallization.

(Chemistry--Organic, TT, v. 8, no. 2)

62-12956

1. Title: Stereospecific polymerization
I. Natta, G.
II. Mazzanti, G.
III. CTS(Chem)-259
IV. Chemical Translating Service, Palo Alto, Calif.

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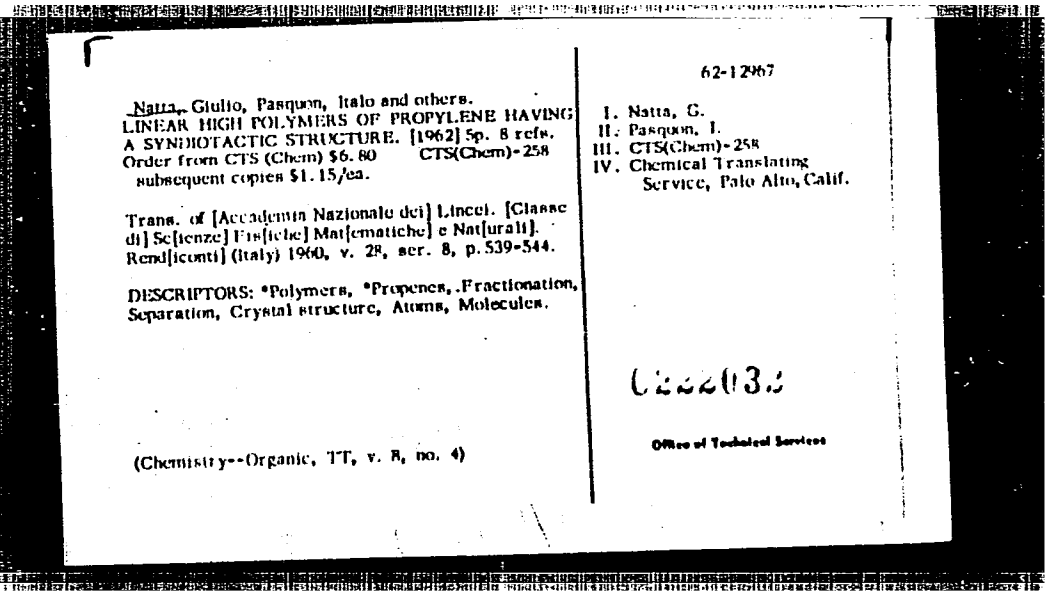

Natta, Giulio, Pasquon, Italo and others.
LINEAR HIGH POLYMERS OF PROPYLENE HAVING A SYNDIOTACTIC STRUCTURE. [1962] 5p. 8 refs.
Order from CTS (Chem) $6.80 CTS(Chem)-258
subsequent copies $1.15/ea.

Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1960, v. 28, ser. 8, p. 539-544.

DESCRIPTORS: *Polymers, *Propenes, Fractionation, Separation, Crystal structure, Atoms, Molecules.

(Chemistry--Organic, TT, v. 8, no. 4)

62-12967

I. Natta, G.
II. Pasquon, I.
III. CTS(Chem)-258
IV. Chemical Translating Service, Palo Alto, Calif.

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Natta, Giulio, Farina, Mario and others.
ASYMMETRIC SYNTHESES OBTAINED BY PROCESSES OF CATIONIC CHARACTER. 1961, 1180 words, 3 refs.
Order from CTS(Chem) $4.80 CTS(Chem)-205
subsequent copies $1.00/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1961, v. 43, no. 2, p. 161-162.

DESCRIPTORS: *Polymers, Synthesis, Catalysts, *Monocyclic compounds, Polymerization.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22482

I. Natta, G.
II. Farina, M.
III. Chem(CTS)-205
IV. Chemical Translating Service, Palo Alto, Calif.

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

Use of Dicyclopentadienylititanium Derivatives for the Study of Catalysts of Low-Pressure Ethylene Polymerization,
by G. Natta, 5 pp.
ITALIAN, per, Chimica e l'Industria, Vol XXXIX, No 1, 1957, pp 19-20.
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Recent Research in the Field of Olefine Chemistry.
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P. Corradini, G. Lutzu, G. Moraglio, 31 pp.
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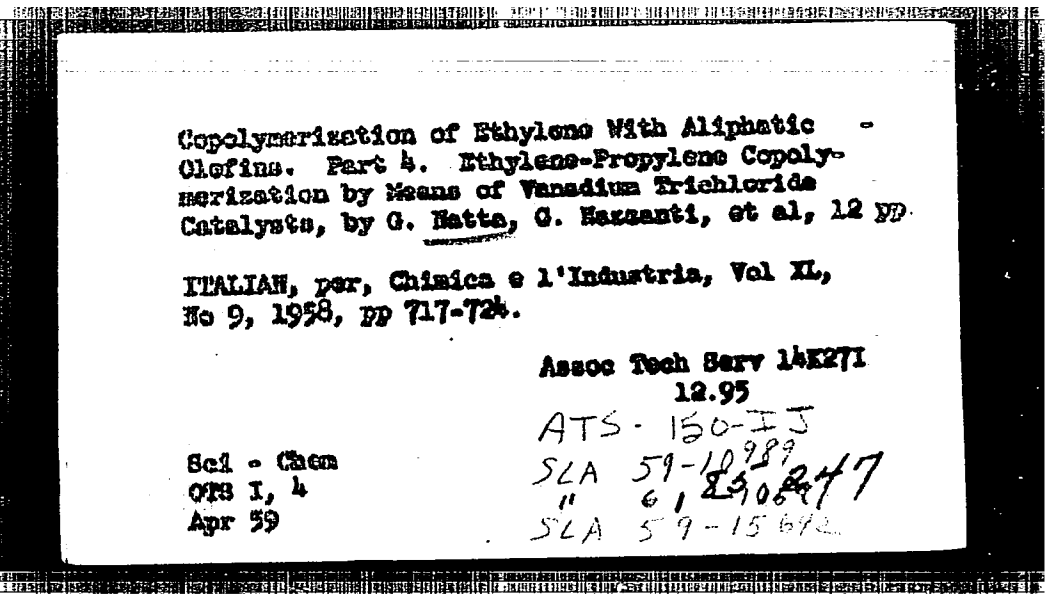

Copolymerization of Ethylene With Aliphatic - Olefins. Part 4. Ethylene-Propylene Copolymerization by Means of Vanadium Trichloride Catalysts, by G. Natta, G. Mazzanti, et al, 12 pp.

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Isotactic Polymers of Vinyl Monomers Containing Silicon, by G. Natta, G. Mazzanti, et al, 8 pp.

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Copolymerization of Ethylene with Aliphatic
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by Means of Titanium Halide Catalysts, by G. Natta,
A. Valvassori, et al., NP 17 pp.

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ON THE CHAIN STRUCTURE OF CRYSTALLINE POLYVINYL ISOBUTYL ETHER. [1963] 7p. (figs. omitted) 16 refs.
Order from SLA $1.10 63-14194

Trans. of Makromolekulare Chemie (Switzerland) 1955, v. 17, Dec, p. 455-462.

DESCRIPTORS: *Molecular structure, Crystal structure, *Acetal plastics, Ethers, Plastics.

The chain structure of crystalline polyvinyl isobutyl ether, prepared by a cationic catalysis mechanism, is discussed. The x-ray photo data are interpreted with the aid of the molecular transformation method, and it is concluded that the polymer is isotactic in the crystal phase (that is, the asymmetrical carbon atoms all have the same steric (space) configuration), and the polymer
(Chemistry--Physical, TT, v. 10, no. 9) (over)

63-14194

1. Title: Polyvinylisobutyl ether
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II. Bassi, I.
III. Corradini, P.

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Natta, G[ulio] Bassi, I[vano Walter] and Corradini, P[aolo].
THE CHAIN STRUCTURE OF CRYSTALLINE POLYVINYL ISOBUTYL ETHER. [1963] 11p (figs omitted). Order from K-H $11.00 K-H 5388 a

Trans. of Makromolekulare Chemie (Switzerland) 1956, v. 18/19, p. 455-462.

DESCRIPTORS: Ethers, *Butyl radicals, *Vinyl radicals, Polymers, Crystallization, Molecular structure

(Chemistry--Organic, TT, v. 11, no. 2)

TT-63-22804

I. Natta, G. I.
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Polymorphism of Crystalline Titanium Trichloride, by G. Natta et al.

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SLA TT 64-20344

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Stereospecific Polymerization of Conjugated Diolefins. II. Polymerization of Butadiene With Catalysts Prepared From Aluminum Alkyls and Soluble Vanadium Chlorides, by G. Natta, L. Porri, A. Mazzei, 20 pp.

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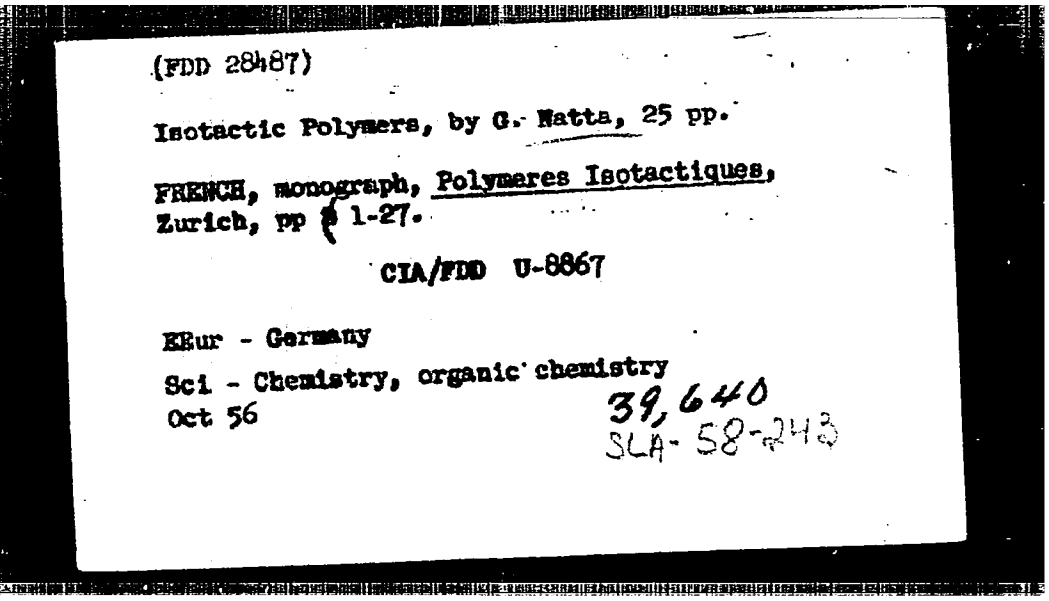

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EEur - Germany

Sci - Chemistry, organic chemistry

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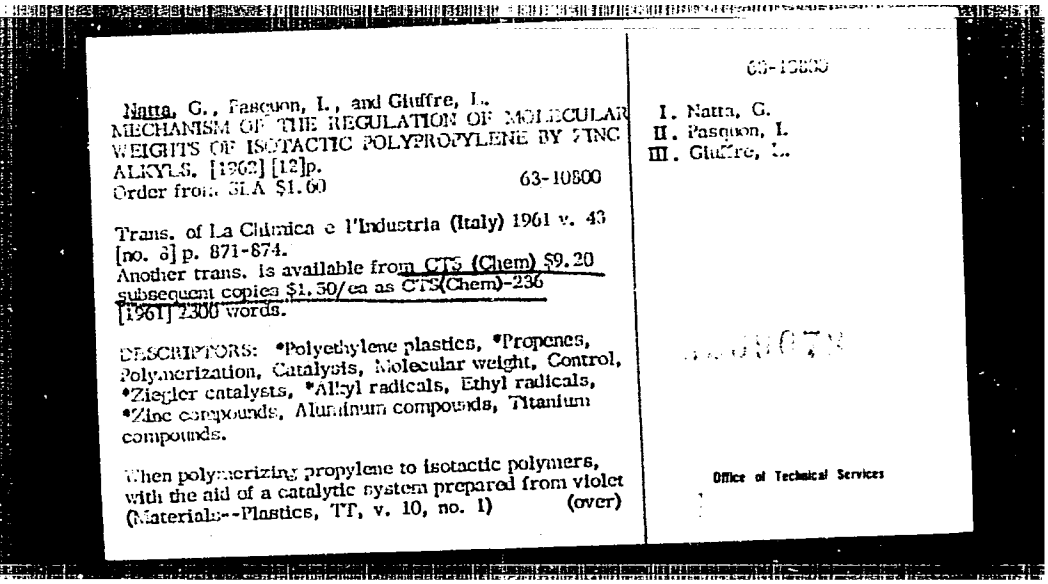

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MECHANISM OF THE REGULATION OF MOLECULAR WEIGHTS OF ISOTACTIC POLYPROPYLENE BY ZINC ALKYLS. [1962] [12]p.
Order from: SLA $1.60 63-10800

Trans. of La Chimica e l'Industria (Italy) 1961 v. 43 [no. 3] p. 871-874.
Another trans. is available from CTS (Chem) $9.20 subsequent copies $1.50/ea as CTS(Chem)-236 [1961] 2300 words.

DESCRIPTORS: *Polyethylene plastics, *Propenes, Polymerization, Catalysis, Molecular weight, Control, *Ziegler catalysts, *Alkyl radicals, Ethyl radicals, *Zinc compounds, Aluminum compounds, Titanium compounds.

When polymerizing propylene to isotactic polymers, with the aid of a catalytic system prepared from violet (Materials--Plastics, TT, v. 10, no. 1) (over)

63-10800

I. Natta, G.
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[Kinetics of Propylene Polymerization with Highly Stereospecific Heterogeneous Catalysts. Part IV., The Influence of Temperature and Pressure on the Kinetics of Polymeric Chain Growth and Termination Processes, by G. Natta, I. Pasquon, 21 p.

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Atactic and Stereoblock Polymers from Alpha-Olefins, by G. Natta, G. Mazzanti, P. Longi, 17 pp.

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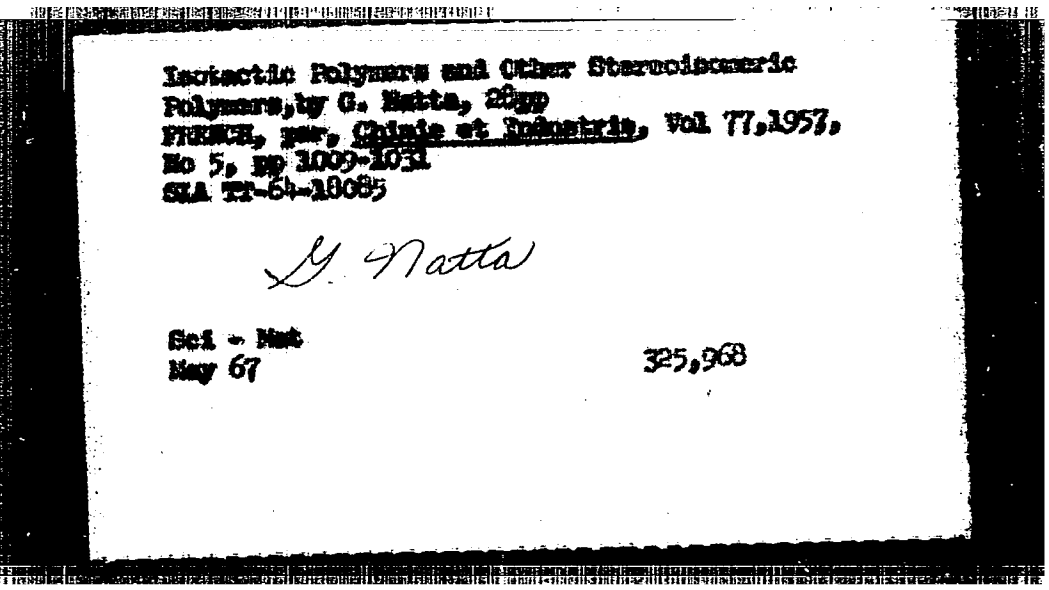

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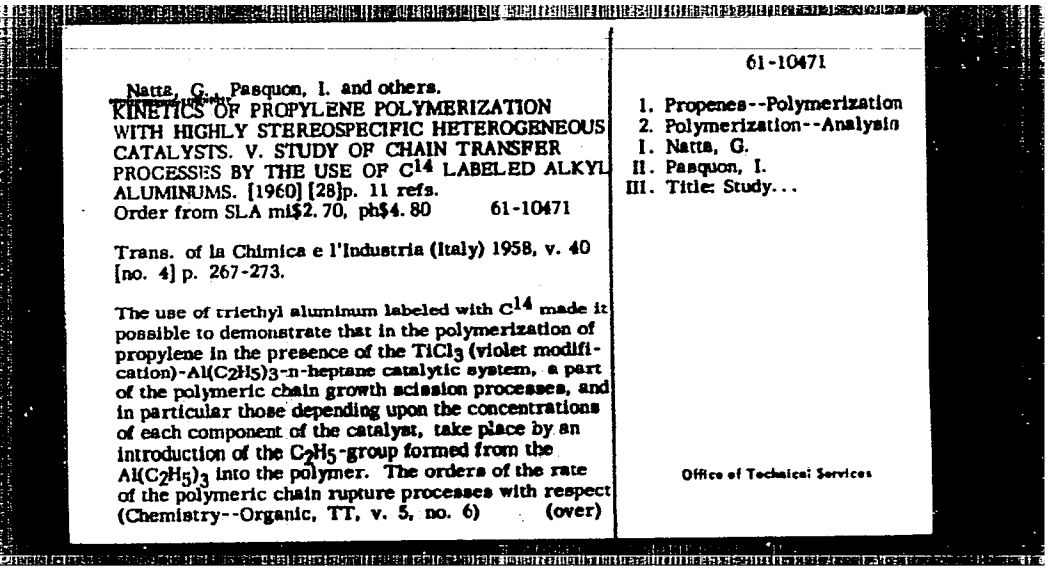

Natta, G., Pasquon, I. and others.
KINETICS OF PROPYLENE POLYMERIZATION WITH HIGHLY STEREOSPECIFIC HETEROGENEOUS CATALYSTS. V. STUDY OF CHAIN TRANSFER PROCESSES BY THE USE OF C^{14} LABELED ALKYL ALUMINUMS. [1960] [28]p. 11 refs.
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Trans. of la Chimica e l'Industria (Italy) 1958, v. 40 [no. 4] p. 267-273.

The use of triethyl aluminum labeled with C^{14} made it possible to demonstrate that in the polymerization of propylene in the presence of the $TiCl_3$ (violet modification)-$Al(C_2H_5)_3$-n-heptane catalytic system, a part of the polymeric chain growth scission processes, and in particular those depending upon the concentrations of each component of the catalyst, take place by an introduction of the C_2H_5-group formed from the $Al(C_2H_5)_3$ into the polymer. The orders of the rate of the polymeric chain rupture processes with respect (Chemistry--Organic, TT, v. 5, no. 6) (over)

61-10471

1. Propenes--Polymerization
2. Polymerization--Analysis
I. Natta, G.
II. Pasquon, I.
III. Title: Study...

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Vulcanized Elastomers from Substantially Amorphous α-Olefin Polymers and Copolymers and Process for their Production, by Natta, Giulio, Crespi, Giovanni, Borsini Giancarlo, 32 pp.

ITALIAN, Belgian patent 563,834, 9 Jan 58, by Montecatini Societa Generale per l'Industria Mineraria e Chimica, Milan. Priority: Italian patent application 430, filed 9 Jan 57 and 10,997, filed 23 Jul 57.

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[Kinetics of Propylene Polymerization with Highly Stereospecific Heterogeneous Catalysts]. Part III, Chain Deactivation Processes Dependent on the Catalyst Concentration, by G. Natta, I. Pasquon, E. Giachetti, 18 p.

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OTS 61-10469
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The Structure of the Alkali Cyanides and Their Isomorphism With ~~th~~ the Halides, by G. Natta, L. Passerini, 28 pp.

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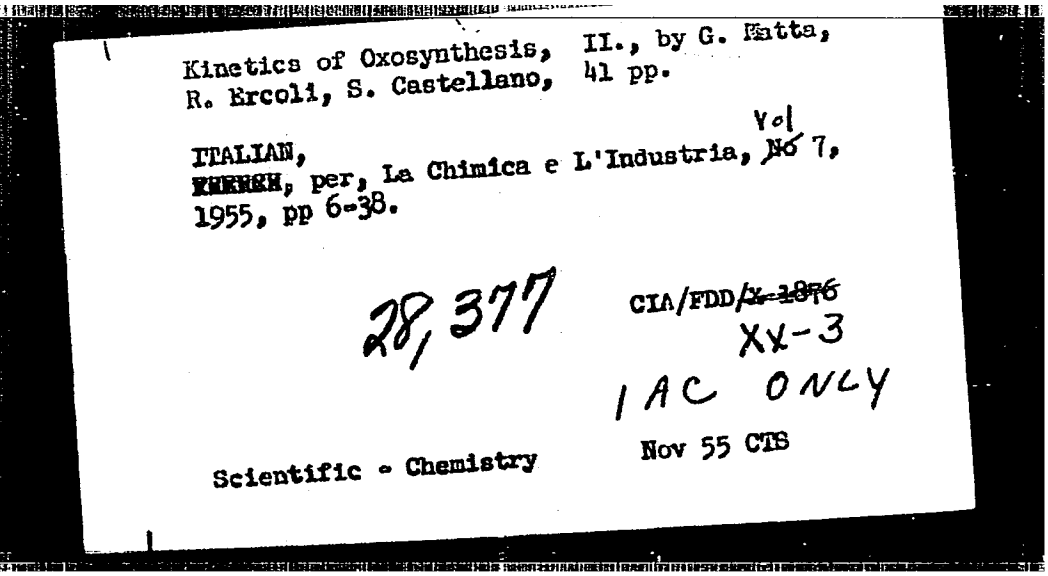

Kinetics of Oxosynthesis, II., by G. Natta, R. Ercoli, S. Castellano, 41 pp.

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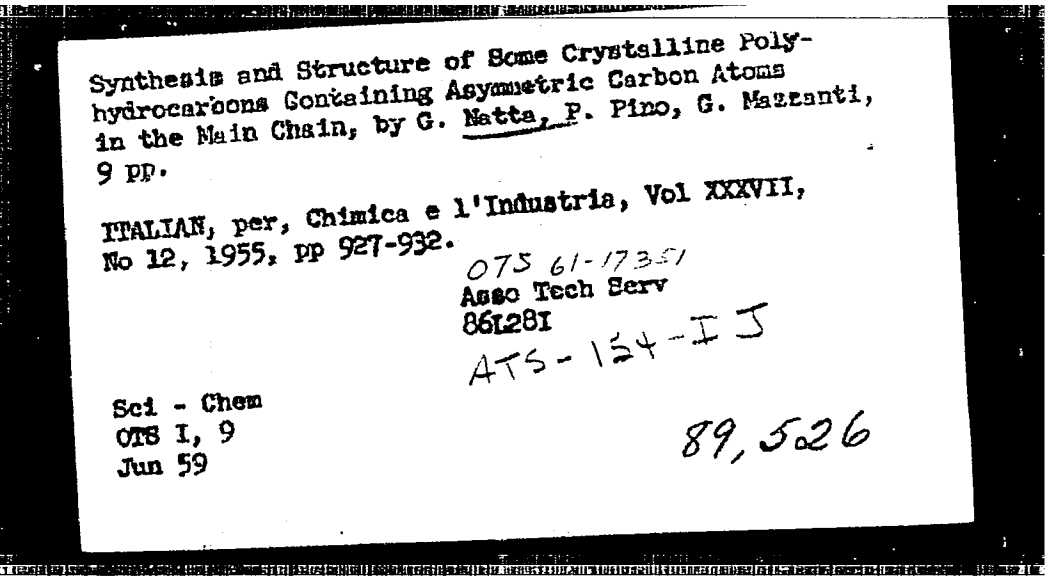

Synthesis and Structure of Some Crystalline Polyhydrocarbons Containing Asymmetric Carbon Atoms in the Main Chain, by G. Natta, P. Pino, G. Mazzanti, 9 pp.

ITALIAN, per, Chimica e l'Industria, Vol XXXVII, No 12, 1955, pp 927-932.

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SYNTHESIS AND CHARACTERISTICS OF NEW POLYMERS OF THE ALPHA OLEFINS WITH EXCEPTIONALLY REGULAR STRUCTURE. [1961] [7]p.
Order from SLA $1.10 62-14034

Trans. of mono. (paper) from World Petroleum Congress (no. 4) [Rome, 1955]. Proceedings, sect. IV/C.

DESCRIPTORS: *Polymers, *Ethylenes, *Petroleum, Synthesis, Crystals, Mechanical properties.

Topics discussed include (1) generalities of the polymers of alpha olefins, (2) synthesis and characteristics of crystalline polymers of alpha olefins, and (3) mechanical properties of isotaxic polymers.

(Chemistry--Organic, TT, v. 8, no. 7)

62-14034

I. Natta, G.
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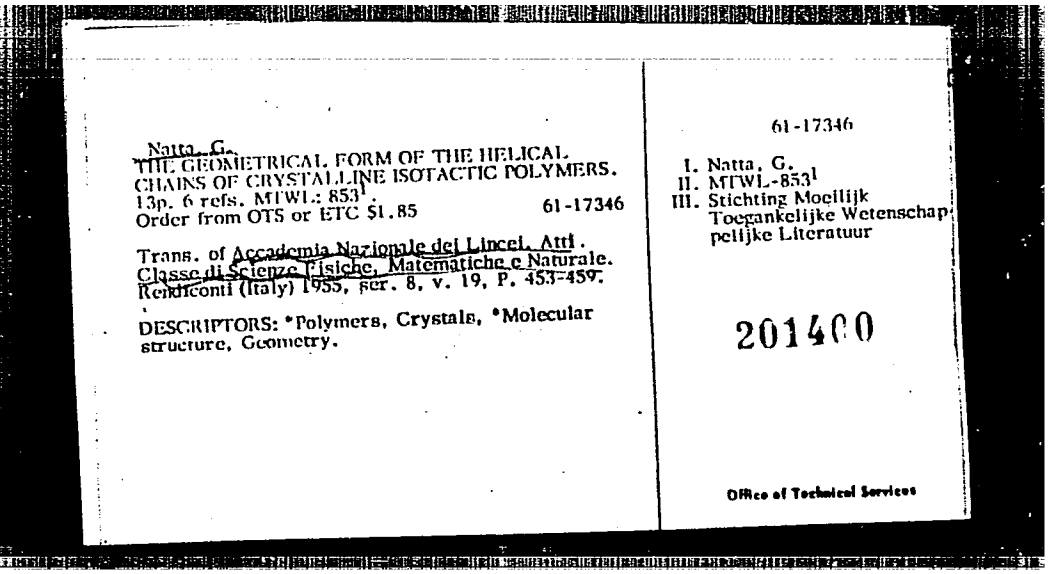

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THE GEOMETRICAL FORM OF THE HELICAL CHAINS OF CRYSTALLINE ISOTACTIC POLYMERS. 13p. 6 refs. MTWL: 853[1].
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DESCRIPTORS: *Polymers, Crystals, *Molecular structure, Geometry.

61-17346

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Kinetic Interpretations of Heterogeneous Catalysis and Applications to reactions Between Gases at High Pressure. II. Synthesis of Methanol over Copper-Containing Catalysts, by G. Natta.

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Natta, G., Pino, P., and Mazzanti, G.
HIGH MOLECULAR WEIGHT POLYMERS OF ACETYLENIC HYDROCARBONS AND METHODS FOR THEIR PREPARATION. [1961] 6p.
Order from ATS $12.60 ATS-04N511

Trans. of Italian patent 530,753, filed 18 Mar 55, granted 15 Jul 55.

DESCRIPTORS: *Polymers, Molecular weight, Synthesis, *Acetylenes, Polymerization.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22336

I. Natta, G.
II. Pino, P.
III. Massanti, G.
IV. Patent (Italy) 530 753
V. ATS-04N511
VI. Associated Technical Services, Inc., East Orange, N. J.

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Natta, G., Mazzanti, G., and Boschi, G.
COPOLYMERS OF HIGH MOLECULAR WEIGHT FROM OLEFINS AND PROCEDURES FOR THEIR PREPARATION. [1961] 46p. (7 figs. 3 tables omitted) 7 refs.
Order from OTS or SLA $4.60 62-10759

Trans. of Italian patent 554,803, by Montecatini Co. of Milan for the Mining Industry and Chemistry, filed 23 Dec 55, granted 16 Jan 57.

DESCRIPTORS: *Ethylenes, *Polymers, *Molecular weight, Alkyl radicals, Catalysts, Transition elements, Polymerization.

A process is proposed for the preparation of linear, high molecular weight copolymers, substantially free of homopolymers, from alpha-olefins $CH_2 = CHR$ where R is an alkyl, among themselves and/or with ethylene. The process is characterized by the use of (Engineering--Chemical, TT, v. 7, no. 11) (over)

62-10759

I. Natta, G.
II. Mazzanti, G.
III. Boschi, G.
IV. Patent (Italy) 554 803

209685

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APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

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Natta, G.
STEREOSPECIFIC CATALYSIS AND ISOTACTIC POLYMERS [Stereospezifische Katalysen und Isotaktische Polymere]. [1961] 30p. 34 refs.
Order from ES $15.00

Trans. of Angew[andte] Chem[ie] (West Germany) 1956, v. 68, p. 393-[403] (Also pub. in la Chimica e l'Industria (Italy) 1956, v. 38, p. 751ff).
Another translation is available from SLA $3.60 as 61-16700 [1961] [39]p.

DESCRIPTORS: *Catalysis, *Polymers, Synthesis, Polymerization.

(Chemistry--Organic, TT, v. 6, no. 7)

61-25135

1. Title: Isotactic polymers
2. Title: Stereospecific polymerization
I. Natta, G.
II. Stux, Erica, Akron, Ohio

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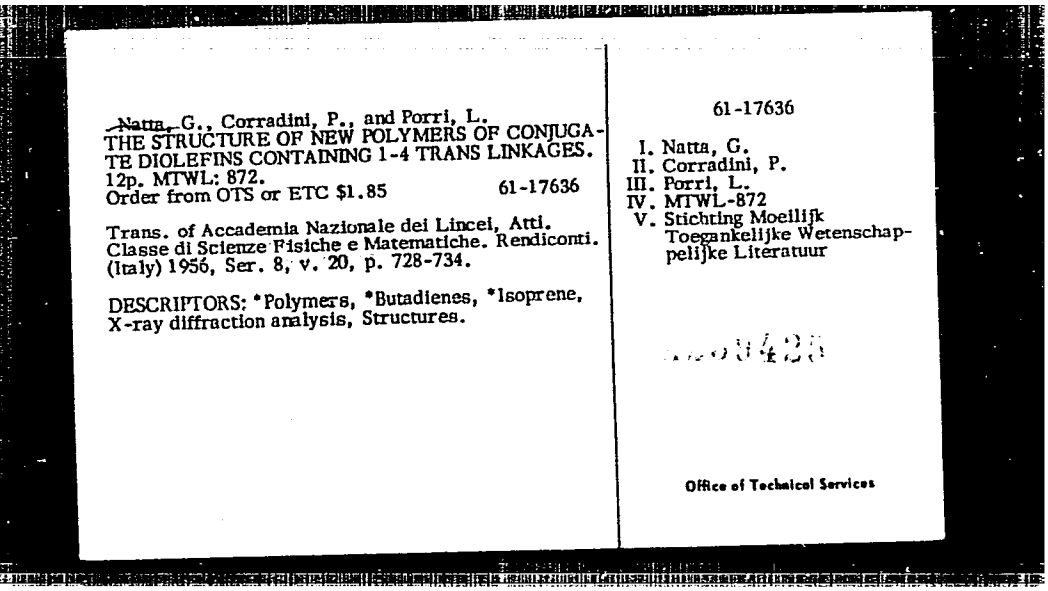

Natta, G., Corradini, P., and Porri, L.
THE STRUCTURE OF NEW POLYMERS OF CONJUGATE DIOLEFINS CONTAINING 1-4 TRANS LINKAGES.
12p. MTWL: 872.
Order from OTS or ETC $1.85 61-17636

Trans. of Accademia Nazionale dei Lincei, Atti. Classe di Scienze Fisiche e Matematiche. Rendiconti. (Italy) 1956, Ser. 8, v. 20, p. 728-734.

DESCRIPTORS: *Polymers, *Butadienes, *Isoprene, X-ray diffraction analysis, Structures.

61-17636

I. Natta, G.
II. Corradini, P.
III. Porri, L.
IV. MTWL-872
V. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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Structure of the Chain of Crystalline Poly (Ni Propylene Oxide), by G. Natta, 11 pp.

ITALIAN, per, Accademia Nazionale dei Lincei. Atti. Classe di Scienze Fisiche, Matematiche e Naturali Rendiconti. Serial # 8, Vol XX, 1956, pp 408-413.

SLA 61-17646

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24 Jul 62
Vol VII, No 10

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Stereospecific Polymerization of α-Olefins, by G. Natta, 9 pp.

FRENCH, per, Chemica e l'industria, Vol XXXVIII, No 2, 1956, pp 124-127.

SLA Tr 1502/56

Sci - Chem
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Applied Chemistry Stereospecific Catalyzers and Isotactical Polymers, by G. Natta, 36 pp.

GERMAN, mo per, Angew Chem, Vol LXVIII, No 12, 1956, pp 393-403. CIA 60334

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Sci - Chem
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Viscosity Numbers and Molecular Weights of Fractionated Isotactical Polystyrenes, by G. Natta, F. Danusso, G. Moraglio, 7 pp.

GERMAN, per, Makromol Chem, Vol XX, 1956, pp 37-45.

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Sci - Chemistry
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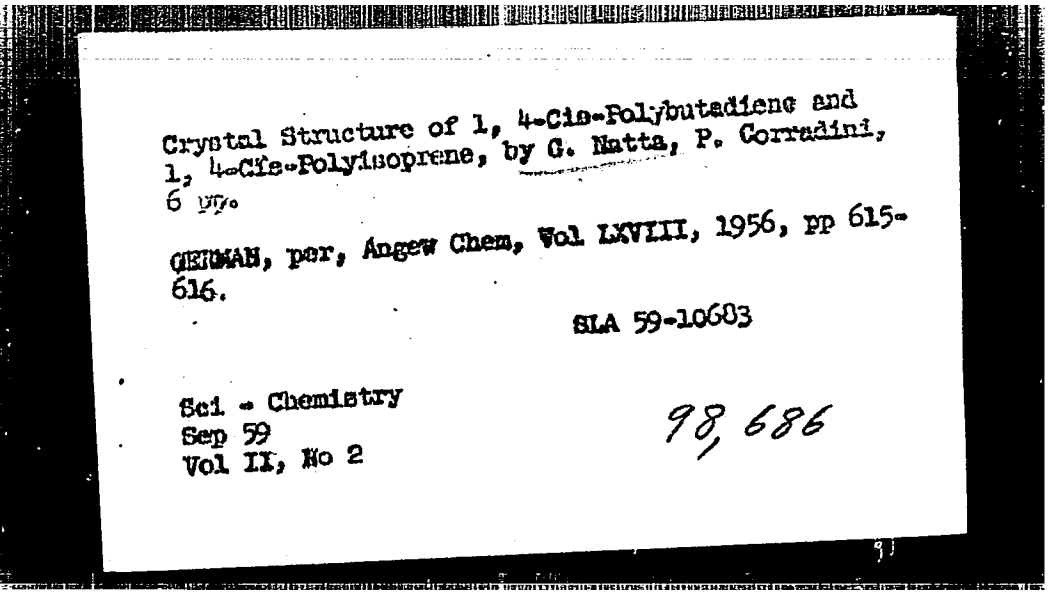

Crystal Structure of 1, 4-Cis-Polybutadiene and 1, 4-Cis-Polyisoprene, by G. Natta, P. Corradini, 6 pp.

GERMAN, per, Angew Chem, Vol LXVIII, 1956, pp 615-616.

SLA 59-10603

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Preliminary Report on the Crystal Structure of Isotactic Poly-2-Butene, by G. Natta, P. Corradini, I. W. Bassi, 4 pp.

(GERMAN, per, Makromol Chem, Vol XXI, No 3, Dec 1956, pp 240-244.

SLA Tr 57-1175

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Process for the Polymerization of Acrylonitrile and Polymers Obtained Thereby, by G. Natta, G. dall' Asta, 6 pp.

FRENCH, patent, 1, 183,644, cl. 8 gr. 14, Internat. cl. C 08 f, appl, 1 Oct 57, granted 26 Jan 59, pub. 9 July 59 (Priority; Italy, 4 Oct 56) by Montecatini (Soc. Gen. Industria Mineraria e Chimica).

SLA 60-10730

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Natta, G., Porri, L. and others.
ISOTACTIC TRANS-1,4 POLYMERS OF 1,3-PENTADIENE. 1961, 2250 words, 3 refs.
Order from CTS(Chem) $9.00 CTS(Chem)-222
Subsequent copies $1.50/ea.

Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fi[ziche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1960 [ser. 8] v. 29, p. 257-264.

DESCRIPTORS: *Pentadienes, *Polymers, Synthesis, Polymerization.

(Chemistry--Organic, TT. v. 6, no. 10)

61-25422

I. Natta, G.
II. Porri, L.
III. CTS(Chem)-222
IV. Chemical Translating Service, Palo Alto, Calif.

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A Process for the Preparation of Linear Polymers of Aromatic Vinylic Hydrocarbons, and Products Obtained by the Process, by Guilio Natta, Dario Sianesi, 2 pp.

ITALIAN, Patent Appl, 4501, 25 Mar 1958.

CIA/FDD XX-[redacted]803
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Kinetic Presentation of the Study of the Formation of Stereoblock Polymers, by Giulio Natta, 13 p.

ITALIAN, per, Accad Nazionale dei Lincei, Classe Sci Fis Mat Nat Rend 1958, Vol XXIV, No 3, pp 246-253.

SLA 60-10044 112,091

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APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100390020-3

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Kinetic Treatment of the Formation of Stereoblock Polymers, by Giulio Natta, 15 pp.

ITALIAN, Per, Accad Lincei. Classe Sci Fiz Mat Nat,Rend, 1958, Vol XXIV, No 3, pp 246-255.

SLA 59-10809

Sci
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Vol 2, No 3

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Isophase Transitions of Polymers of α-Olefines of the Normal Aliphatic Series, by Giulio Natta, Ferdinando Danusso, Giovanni Moraglio, 11 pp.

ITALIAN, per, Accademia Nazionale dei Lincei. Classe di Scienze Fiziche Matematiche e Naturali Rendiconti, Vol XXIV, ser 8, 1958, pp 254-260.

SLA 59-15001.

Sci - Chemistry
Nov 59

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Natta, Giulio, Farina, Mario, and Peraldo, Mario.
POLYMERS HAVING A DOUBLY ISOTACTIC STRUCTURE. [Nov 63] 1800 words 5refs
Order from CTS(Chem) $7.20 CTS(Chem)-348
subsequent copies $1.20/ea.

Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1958 [ser. 8] v. 25, p. 424-430.

DESCRIPTORS: *Polyethylene plastics, *Propenes, Polymerization, Ziegler catalysts, *Stereochemistry, Molecular structure.

(Materials--Plastics, TT, v. 11, no. 5)

TT-64-12044

I. Natta, G.
II. Farina, M.
III. Peraldo, M.
IV. CTS(Chem)-348
V. Chemical Translating Service, Palo Alto, Calif.

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63-17937

Natta, Giulio, Pino, Piero, and Poli, Lido.
A PROCESS OF MANUFACTURING HIGHER MOLECULAR WEIGHT COPOLYMERS OF α-OLEFINS AND DIOLEFINS. July 63, 14p.
Order from SA $22.00 SA Code-P-153

Trans. of Japanese patent 255,539, cl. 26-B-2 (26-B-11) appl. no. 6804/1956 filed 17 Mar 56, pub. 25 May 59 as 3991/1959, by Montecatini Societa, Italy (priority claimed 18 Mar 55, Italy).

DESCRIPTORS: *Polyethylene plastics, *Butenes, *Pentenes, *Dienes, *Butadienes, *Pentadienes, *Hexadienes, *Isoprene, *Copolymerization, Metal-organic compounds, *Ziegler catalysts, Titanium compounds, Chlorides, Aluminum compounds, Alkyl radicals, *Elastomers.

(Materials--Plastics, TT, v. 10, no. 6)

I. Natta, G.
II. Pino, P.
III. Poli, L.
IV. Patent (Japan) 255 539
V. SA Code-P-153
VI. Seizaburo Aoki (Japan)

144672

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Natta, Giulio, Giuffre, Luigi, and Pasquon, Italo. DETERMINATION OF METALS BOUND TO ISOTACTIC POLYPROPYLENE CHAINS. 7 June 60, 12p. 9 refs.
Order from SLA $1.60 61-16791

Trans. of Accad[emia] Naz[ionale dei] Lincei. [Classe di Scienze Fiziche, Matematiche e Naturali. Rendiconti] (Italy) 1958 [ser. 8] v. 25, no. 6, p. 417-423.

DESCRIPTORS: *Propenes, Polymers, *Metals, Determination, Polymerization, Molecular weight.

In the polymerization of isotactic polymeric propylene, with the $Al(C_2H_5)_3$ -α-$TiCl_3$ catalytic system, the chain transfer process, the rate of which is a function of the square root of the concentration of alkylaluminum, introduces $-C_2H_5$ terminal groups into the polymeric chains which remain, for the most part, bound to aluminum. With the variation of the concentration of alkylaluminum, a variation in the number of $-C_2H_5$
(Chemistry--Organic, TT, v. 6, no. 5) (over)

61-16791

1. Title: Isotactic polymers
I. Natta, G.
II. Giuffre, L.
III. Pasquon, I.

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Chromatographic Fractionation of Stereoblock Polymers, by Guilio Natta, Mario Pegoraro, Mario Peraldo, 12 p.

ITALIAN, per, la Ricerca Scientifica [ed il Progresso Technica nell'Economia Nazionale, 1958, Vol XXVIII, July pp 1473-1479.

SLA 59-17059

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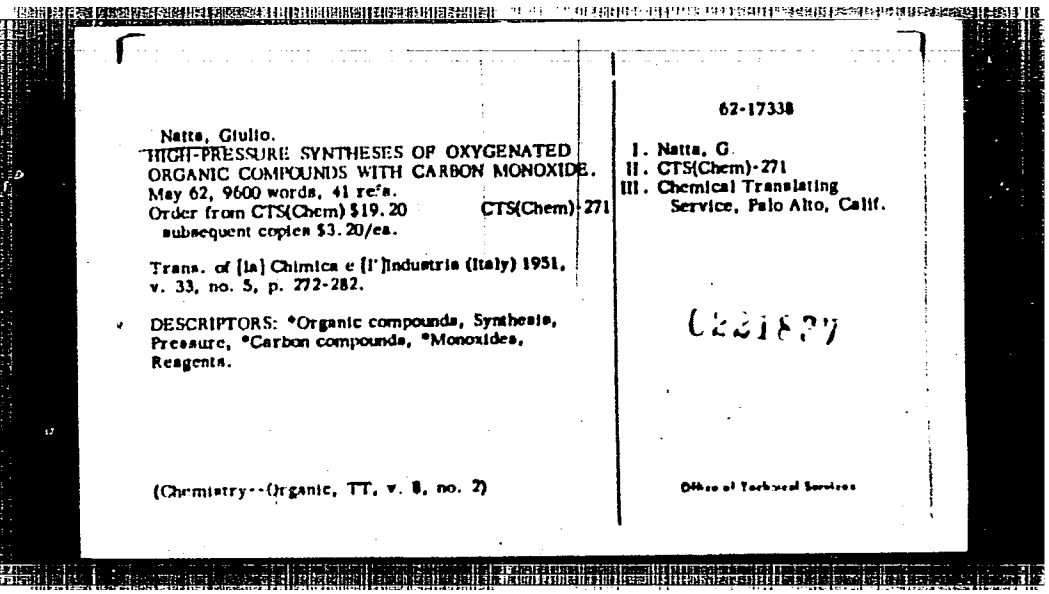

Natta, Giulio.
HIGH-PRESSURE SYNTHESES OF OXYGENATED ORGANIC COMPOUNDS WITH CARBON MONOXIDE.
May 62, 9600 words, 41 refs.
Order from CTS(Chem) $19.20 CTS(Chem)-271
subsequent copies $3.20/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1951, v. 33, no. 5, p. 272-282.

DESCRIPTORS: *Organic compounds, Synthesis, Pressure, *Carbon compounds, *Monoxides, Reagents.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17338

I. Natta, G.
II. CTS(Chem)-271
III. Chemical Translating Service, Palo Alto, Calif.

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Natta, Giulio, Pino, Piero and others.
SYNTHESES AND PROPERTIES OF CRYSTALLINE HIGH POLYMERS OF SOME ALPHA-OLEFINS WITH A BRANCHED CHAIN. [1960] 10p. 9 refs.
Order from SLA mi$1.80, ph$1.80 60-18499

Trans. of Accad[emia] Naz[ionale dei] Lincei. Classe [di] Sci[enze] Fiz[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1955, v. 19, p. 397-403.

(Chemistry--Organic, TT, v. 5, no. 3)

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60-18499

1. Propenes--Synthesis
I. Natta, G.
II. Pino, P.

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The Crystal Structure of Isotactic Polystyrene, by
~~XXXX~~ Giulio Natta, Paolo Corradini, 3 pp.

ITALIAN, per, Makromol.Chem., Vol XVI, No 1, 1955, pp 77-80.

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Scientific - Chemistry

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Propylene Polymers of High Molecular Weight and Procedure for their Preparation, by Giulio Natta, 13 p.

ITALIAN, patent 535,712, CL. XXIV, introduced 8 June 54, approved 17 Nov 55;

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Crystalline Structure of Isotactic Polypropylene, by Giulio Natta, Paolo Corradini, Marco Cesari, 10 p.

ITALIAN, Per, Accad Nazionale Lincei, Classe di Sdi Fi Mat e Nat Rend, 1956, Vol XXI, No 5, pp 365-372.

SLA 59-15931

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